

脳の構造と機能の複雑性

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If human-unique intelligence exists, technological singularity would not be possible, and human brains and intelligence could not be measured and simulated by computer data, but misinterpreted. These cause problems in EU's Human Brain project and USA's BRAIN Initiative project. Extremely important to study.

Go game is only a strictly defined game, within very small space. The real challenges for intelligence studies are: to understand the principles and mechanisms behind the development of natural languages, philosophical opinions, mathematics axiom systems, and sciences, etc.

Turing Test and the Nobel prize for Leukotomy have been misleading intelligence studies for long.

Turing Test is not even a scientific method, neither is regular Go-game playing, with AlphaGo or not, which cannot measure the intelligence of computers. More specific experiments are needed to identify the critical factors of human intelligence missed in Go-game playing and computers.

The disastrous consequences of Leukotomy gave a lesson: without concrete evidences of physiological pathological changes, doctors should not do surgeries on humans, especially for brains. Surgeries without pathology-base better be treated as professions different from doctors, for better regulation.

Deep learning, neural network software, and computers themselves, are in the traps of Turing Machine, and lack of certain human unique intelligence factors so far. Neurosciences only make progresses in some animal level intelligence: vision, motion, emotion, etc.

My main plans in human intelligence studies:

- 1) Develop specific experiments with Go game, when computer Go players are close to or better than top human players;
- 2) Study the real semantics of natural languages, especially when machine translation is good enough;
- 3) Study some factors in life systems including neural systems.

The semantics of irrational numbers is crucial to look into these problems.

Scientific philosophies started from:

Dialogue Concerning the Two Chief World Systems, 1632, by Galileo Galilei;

The Sceptical Chemist, 1661, by Robert Boyle;

On the Origin of Species, 1859, by Charles Darwin.

After Periodic Table, there are Standard Model in quantum physics, and genome models in biology. However, to understand the missing principles and mechanisms in intelligence and brains, people need new scientific philosophies and methodologies, to explain the differences between machines and life, etc.

Fairness is a part of human intelligence. Without clarifying the sophism and misleading in brain and intelligence studies, including Leukotomy and Turing Test, people could not understand the essentials of intelligence better.

Human rights are important to scientific researches, especially when researchers face dangers after they tell some truth.

I have been working for the commonwealth of human beings for many years without being paid back, not able to last longer. My further research could be possible only if I and my family members are safe personally, economically, and my intellectual properties are safe.

Please do not take my ideas without consulting with me first. It is not fair to me, and you even could misunderstand me and cause very bad consequences.